





The APS-7000 Series is an AC power source, containing abundant features for the testing and characteristic analysis of power supplies, electronic devices, components and modules. The APS-7000 Series is fully programmable to simulate different power outputs. All parameters and values as well as measurement results are displayed simultaneously on the 4.3 inch TFT-LCD screen.

The APS-7000 Series comprises nine measurement functions (Vrms, Irms, F, Ipk, W, VA, PF, Ipk hold, CF), and provides user interface similar to that of AC Power Meter. The APS-7000 Series, internal circuit design 4 sets of current range to improve measurement resolution, is ideal for the LED industry and standby mode power consumption test. Under the ARB (function waveform) mode, the APS-7000 Series provides waveforms, including SINE waveform, Triangle waveform, Staircase waveform, Clipped Sinewave, Crest factor waveform, Surge waveform, and Fourier series to meet the requirement of simulating abnormal input power waveform test of different industry.

Ten sets of Preset allow users to store ten settings; Power ON Output setting allows Sequence, Simulate, and Program to automatically execute output after the equipment power is on.

The APS-7000 Series features five methods to cope with special purpose or abnormal voltage, frequency, and phase; ten sets of the Simulate mode simulate power outage, voltage rise, and voltage fall; ten sets of the Sequence mode allow users to define parameters and produce sine wave by editing steps; Ramp Control allows users to set the variation speed for output voltage rise and fall; Surge/Dip Control simulates DUT's input power producing a Surge or Dip voltage overlapping with output voltage waveform at a specific time. Ethernet Port, on the rear panel of the series, can be used for remote program control; Sync Output Socket provides external 10V sync output; Signal Output Connector provides monitor of Program execution results. the APS-7000 Series also provides Trigger In/Out and Output on/off remote control functions from J1 connector on the rear panel.

APS-7000 Series

FEATURES

- 4.3" large LCD Display
- Measurement Function:
 Voltage, Current, Power, Frequency,
 Power Factor, Crest Factor, Apparent
 Power, Ipeak, Ipk hold
- Surge/Dip Control Mode
- Frequency: 45.0 ~ 500.0Hz (Std);
 45.0 ~ 999.9Hz (Opt)
- Voltage Range (RMS): 155V (Std)/ 310V (Std)/600V (Opt)
- OVP/OCP/OTP Protection
- Simulate Mode, Sequence Mode, Program Mode
- Ramp Control Function
- ARB (Function Waveform) Mode
- Standard Interface : USB/LAN
- Optional Interface: RS-232 & USB CDC/GPIB











APS-7100 Rear Panel

APPLICATIONS

- The Broad Power Output Range of The Series is Ideal for Various Power Supply Manufacturers
- The Development of Electronic Components and Testing Applications for Manufacturers
- Incoming Quality Control and R & D Applications
- Small AC Current Measurement Applications

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Model	SPECIFICATIONS				
Double Harling		'	A DS 7050	ADS 7100	
Output Prequency 45.00 - 30.00 Hz 33.64 Az 1.63.64 Az <t< th=""><th></th><th></th><th></th><th></th></t<>					
Maximum Current (re-size 1.55Vms	•				
Maximum Current (Fun-s) 0.155Vms 0.150Vms 0.150Vms 16.84 33.64					
Maximum Current (peak)		0.355\/			
Maximum Current (peak) 0.155y/ms 0.050 ms 8.4A 16.5A	waxiiiaiii Cuirciit (i.iii.5)				
OFT. APS-003 [m.ms]	Maximum Current (peak)	0~310Vrms			
OFF. APS-003 (cm.s) O6000/rms O60					
Case Para Case	OPT. APS-003 (r.m.s)				
Cest Factor	OPT. APS-003 (peak)		e e	_	
Cest Factor	1		<0.5% at 45 - 500Hz (Pacietiva Load)		
Line regulation	` '				
Marke Separation Separati					
Voltage	-				
Voltage	SETTING				
Resolution Accuracy Accurac		Range	155Vrms/310Vrms/Auto		
Power On/Off Phase Angle As	J				
Resolution Accuracy Angle Angl		•			
Accuracy Accuracy Commons Co	Frequency				
Power (W) Range Angle Range Secution Accuracy 0 - 359° ** ** ** ** ** ** ** ** ** ** ** ** **					
Resolution 1° 41° (45 - 65 Hz)	Power On /Off Phase	•			
MEASUREMEN		•			
Voltage(RMS)			±1°(45 ~ 65Hz)		
Resolution Accuracy Accurac	MEASUREMENT				
Resolution Accuracy ±(0.5% of reading + 2 counts) ±(0.5% of reading + 3 counts) ±(0.5% of reading + 5 counts) ±(0.	Voltage(RMS)	Range	.20 ~ 38.75Vrms/38.76 ~ 77.50 Vrms/77.51 ~ 155.0Vrms/155.1 ~ 310.0Vrms		
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Current(RMS)		Accuracy	±(0.5% of reading + 2 counts)		
Current(RMS)	Frequency Range				
Current(RMS) Range Resolution Accuracy 2.00 − 70.00mA/60.0 − 350.0mA/0.300 − 3.500A/3.00 − 17.5A Current(Peak) Range Resolution Accuracy 0.0 − 70.0A 0.1mA, 0.1mA, 0.001A, 0.0TA Power(W) Resolution Accuracy 4.0 − 70.0A 0.1 A Apparent(VA) Resolution Accuracy 0.0 − 70.0A 0.0 − 90.999.99W; ± (0.6% of reading + 5 counts); 100.0 − 999.99W Power Factor Range Resolution Accuracy 0.01 √ 1.0		Resolution	0.01Hz (at 45Hz~99.99Hz)/0.1Hz (at 100Hz~500.0Hz)		
Resolution Accuracy (0.6% of reading+5 counts); 2.00-350.0mA/±(0.5% of reading+5 counts); 0.350-3.500A/±(0.5% of reading+3 counts); 3.5		•			
Current(Peak)	Current(RMS)				
Current(Peak) Range Resolution Accuracy 0.0 ~ 70.0A 0.1A Power(W) Resolution Accuracy (0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° √ 0.0 ° ✓ √ 0.0 ° √ 0.0 ° ✓ 0.0 ° ✓ 0.					
Power(W)	Current(Peak) Range 0.0 ~ 70.0A		counts); $0.350 \sim 3.500 \text{A}/\pm (0.5\% \text{ of reading} + 3 \text{ counts})$; $3.500 \sim 17.50 \text{A}$		
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Accuracy	Power(W)	•	,		
# (0.6% of reading + 2 counts); 1000–9999W # (0.01VA, 0.1VA, 1VA, 1/VA, 1/VA) # (1% of reading + 5 counts); 10.00–999.9VA/±(1% of reading + 5 counts); 10.00–999.9VA/±(1% of reading + 2 counts); 10.00–999.9VA/±(1% of reading + 5 counts); 10.00–999.9VA/±(1% of reading + 2 counts); 10.00–999.9VA/±(1% of reading + 5 counts); 10.00–99.999.9VA/±(1% of reading + 5 counts); 10.00–9 Numeric keys) 10.00–9 Numeric keys) 10.00–9 Numeric keys) 10.00–9 Numeric keys) 10.00–9 Numeric				- 5 counts); 100.0 ~ 999.9W	
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Operating Temperature 20 ~ 80% RH (No Condensation) Storage Humidity 80% RH or less (No Condensation)					
Storage Humidity 80% RH or less (No Condensation)					
			80% RH or less (No Condensation)		
		OL INTERFA			
Standard Interface USB Host/LAN					
Optional Interface GPIB/RS232 & USB CDC	Optional Interface		GPIB/RS232 & USB CDC		
Input Power Source 1φ AC 115/230Vac ±15%	<u> </u>		1φ AC 115/230Vac ±15%		
DIMENSIONS	DIMENSIONS				
430(W) x 88(H) x 400(D) mm; Approx. 24Kg 430(W) x 88(H) x 560(D) mm; Approx. 38H			430(W) x 88(H) x 400(D) mm; Approx. 24Kg	430(W) x 88(H) x 560(D) mm; Approx. 38Kg	

ORDERING INFORMATION

APS-7050 500VA Programmable AC Power Source APS-7100 1000VA Programmable AC Power Source

CD ROM (User Manual, Programming Manual) x 1, Power Cord (Region Dependent), Mains Terminal Cover Set, GTL-123 Test Lead

Global Headquarters

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China Subsidiary

GOOD WILL INSTRUMENT (SUZHOU) CO., LTD.

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Malaysia Subsidiary

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U.S.A. Subsidiary

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TEXIO TECHNOLOGY CORPORATION.

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Korea Subsidiary

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Simply Reliable



Specifications subject to change without notice.

APS-001 GPIB Interface Card

APS-002 RS-232/USB Interface Card GRA-423 APS-7000 Rack Mount Kit

APS-003 Output Voltage Capacity: 0 ~ 600Vrms

APS-004 Output Frequency Capacity: 45~999.9Hz



PA-7000GD1DH